

FORM PTO - 1449

INFORMATION DISCLOSURE STATEMENT

ATTORNEY DOCKET NO.: CYC-046 #4

APPLICANT(S): Phelps et al.

SERIAL NO.: 09/974,722

FILING DATE: October 9, 2001

GROUP: 1711

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U.S. PATENT DOCUMENTS

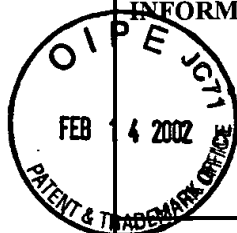
EXAM. INIT.		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
13	A1	6,297,330 B1	10/2/2001	Burch, Jr. et al.	525	444	
13	A2	6,121,466	09/19/2000	Osterholt et al.	549	267	
	A3	5,968,642	10/19/1999	Saito	428	304.4	
	A4	5,936,029	08/10/1999	Hall	524	572	
	A5	5,830,541	11/03/1998	Carswell et al.	427	475	
	A6	5,795,423	8/18/98	Johnson	156	166	
	A7	5,786,440	7/28/98	Kohler et al.	528	196	
	A8	5,760,161	6/2/98	Goins, Jr. et al.	528	299	
	A9	5,756,644	5/26/98	Hodge et al.	528	272	
	A10	5,710,086	01/20/98	Brunelle et al.	502	171	
	A11	5,707,439	01/13/98	Takekoshi et al.	106	483	
	A12	5,700,888	12/23/1997	Hall	526	190	
	A13	5,693,722	12/2/97	Priddy, Jr. et al.	525	439	
	A14	5,668,186	9/16/97	Brunelle et al.	521	48	
	A15	5,663,282	9/2/97	Todt et al.	528	274	
	A16	5,661,214	8/26/97	Brunelle et al.	524	783	
	A17	5,648,454	7/15/97	Brunelle	528	491	
	A18	5,646,306	07/08/1997	Elsasser, Jr.	549	267	
	A19	5,637,655	6/10/97	Priddy, Jr. et al.	525	438	
13	A20	5,605,979	2/25/97	Priddy, Jr. et al.	525	439	
13	A21	5,591,800	01/7/97	Takekoshi et al.	524	783	

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<i>13</i>	A22	5,530,052	6/25/96	Takekoshi et al.	524	447	
	A23	5,527,976	6/18/96	Takekoshi et al.	585	16	
	A24	5,498,651	3/12/96	Brunelle	524	176	
	A25	5,466,744	11/14/95	Evans et al.	524	714	
	A26	5,446,122	8/29/95	Warner et al.	528	279	
	A27	5,434,244	7/18/95	Warner et al.	528	490	
	A28	5,420,226	5/30/95	Hamer et al.	528	201	
	A29	5,410,014	4/25/95	Haese et al.	528	196	
	A30	5,407,984	4/18/95	Brunelle et al.	524	178	
	A31	5,389,719	2/14/95	Takekoshi et al.	524	784	
	A32	5,387,666	2/7/95	Takekoshi et al.	528	283	
	A33	5,386,037	01/31/95	Takekoshi et al.	549	206	
	A34	5,356,984	10/18/94	Carbone et al.	524	431	
	A35	5,348,985	9/20/94	Pearce et al.	521	124	
	A36	5,340,909	8/23/94	Doerr et al.	528	276	
	A37	5,321,117	6/14/94	Brunelle	528	272	
	A38	5,314,779	5/24/94	Odell et al.	430	127	
	A39	5,302,484	4/12/94	Odell et al.	430	127	
	A40	5,300,590	4/5/94	Cook et al.	525	444	
	A41	5,300,393	4/5/94	Odell et al.	430	134	
	A42	5,300,392	4/5/94	Odell et al.	430	130	
<i>13</i>	A43	5,288,837	2/22/94	Munjal et al.	528	198	

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EXAM. INIT.		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
13	A44	5,281,669	01/25/94	Kambour et al.	525	177	
	A45	5,264,548	11/23/93	Brunelle et al.	528	370	
	A46	5,241,880	09/07/1993	Mizobata et al.	74	502.5	
	A47	5,231,161	7/27/93	Brunelle et al.	528	272	
	A48	5,225,129	7/6/93	van den Berg	264	85	
	A49	5,214,158	5/25/93	Brunelle et al.	549	267	
	A50	5,207,850	5/4/93	Parekh	156	166	
	A51	5,191,038	3/2/93	Krabbenhof et al.	525	462	
	A52	5,191,013	3/2/93	Cook et al.	524	601	
	A53	5,116,900	5/26/92	Flautt et al.	524	377	
	A54	5,097,008	3/17/92	Krabbenhof et al.	528	371	
	A55	5,095,088	3/10/92	Wang	528	203	
	A56	5,071,711	12/10/1991	Heck et al.	428	542.8	
	A57	5,039,783	8/13/91	Brunelle et al.	528	272	
	A58	5,023,346	6/11/91	Schon et al.	549	231	
	A59	5,006,637	4/9/91	Guggenheim et al.	528	355	
	A60	4,999,420	3/12/91	Leitz et al.	528	371	
	A61	4,992,228	02/12/1991	Heck et al.	264	135	
	A62	4,980,453	12/25/1990	Brunelle et al.	528	352	
	A63	4,904,810	2/27/90	Brunelle et al.	558	281	
	A64	4,888,411	12/19/89	Shannon et al.	528	199	
	A65	4,831,001	5/16/89	Evans et al.	502	153	
	A66	4,829,144	5/9/89	Brunelle et al.	528	176	
	A67	4,816,548	3/28/89	Evans et al.	528	370	
	A68	4,757,132	7/12/88	Brunelle et al.	528	357	
13	A69	4,740,583	4/26/88	Brunelle et al.	528	370	

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73	A70	4,727,134	2/23/88	Brunelle et al.	528	371	
	A71	4,644,053	2/17/87	Brunelle et al.	528	371	
	A72	4,638,077	01/20/87	Brunelle et al.	558	281	
	A73	4,616,077	10/7/86	Silva	528	371	
	A74	4,605,731	8/12/86	Evans et al.	528	371	
	A75	3,786,067	01/15/1974	Throckmorton et al.	260	327	
	A76	3,018,272	01/23/1962	Griffing et al.	260	75	
73	A77	Re. 34,431	11/02/1993	Brunelle et al.	528	352	

FOREIGN PATENT DOCUMENTS

EXAM. INIT.		DOCUMENT NUMBER	DATE	COUNTRY CODE	CLASS	SUB CLASS	FILING DATE	ABSTRACT ONLY	ENGLISH LANG Y/N
73	B1	676324	06/16/1966	BE	---	---		No	No
	B2	4034574 A1	5/7/1992	DE	---	---		No	No
	B3	3607627 A1	9/10/1987	DE	---	---		No	No
	B4	991,020	5/5/1965	GB	---	---		No	Yes
	B5	957,841	5/13/1964	GB	---	---		No	Yes
	B6	699701 A3	9/18/1996	EP	---	---		Yes	Yes
	B7	688778 A1	12/27/1995	EP	---	---		No	Yes
	B8	655476 A1	05/31/1995	EP	---	---		No	Yes
	B9	635512 A1	01/25/1995	EP	---	---		No	Yes
	B10	601753 A1	06/15/1994	EP	---	---		No	Yes
	B11	598604 A1	5/25/1994	EP	---	---		No	Yes
	B12	589640 A1	03/30/1994	EP	---	---		No	Yes
	B13	543492 A1	05/26/1993	EP	---	---		No	Yes
	B14	486832 A2	05/27/1992	EP	---	---		No	Yes
73	B15	436186 B1	10/25/1995	EP	---	---		No	No

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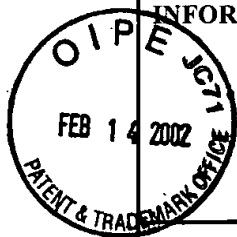
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EXAM. INIT.		DOCUMENT NUMBER	DATE	COUNTRY CODE	CLASS	SUB CLASS	FILING DATE	ABSTRACT ONLY	ENGLISH LANG Y/N
<i>BP</i>	B16	419254 A2	3/27/1991	EP	_____	_____		No	Yes
<i>BP</i>	B17	264835 B1	6/24/1992	EP	_____	_____		No	Yes
<i>BP</i>	B18	235741 B1	01/20/1993	EP	_____	_____		No	No
<i>BP</i>	B19	0000544 B1	8/4/1982	EP	_____	_____		No	Yes
<i>BP</i>	B20	2001031846	02/06/2001	JP	_____	_____		Yes	Yes
<i>BP</i>	B21	09048876	2/18/1997	JP	_____	_____		Yes	Yes
<i>BP</i>	B22	6275547	4/7/1987	JP	_____	_____		Yes	Yes
<i>BP</i>	B23	4621873	06/21/1971	JP	_____	_____		No	Yes
<i>BP</i>	B24	02298512	12/10/1990	JP	_____	_____		Yes	Yes
<i>BP</i>	B25	476425	10/04/1972	JP	_____	_____		No	No (only abstract in English)
<i>BP</i>	B26	95/30702	11/16/1995	WO	_____	_____		No	Yes
<i>BP</i>	B27	93/04106	03/04/1993	WO	_____	_____		No	Yes
<i>BP</i>	B28	91/09899	07/11/1991	WO	_____	_____		No	No (only abstract in English)
<i>BP</i>	B29	88/06605	09/07/1988	WO	_____	_____		No	Yes
<i>BP</i>	B30	00/27632	05/18/2000	WO	_____	_____		No	Yes
<i>BP</i>	B31	1077893	03/7/1984	SU	_____	_____		Yes	Yes

**OTHER ART, JOURNAL ARTICLES, ETC.**

EXAM. INIT.	OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication)	
<i>BP</i>	C1	Ahjopalo, L. et al. (2000) "Cyclic Oligomers in Saturated Polyesters" Polymer, Vol. 41, No. 23, 8283-8290.
<i>BP</i>	C2	Brunelle (1995) "Macrocycles For The Synthesis of High Molecular Weight Polymers" pp. 197-235, ch. 6, New Methods of Polymer Synthesis: Volume 2, edited by J.R. Ebdon and G.C. Eastmond.
EXAMINER <i>BPB/KR</i>		DATE CONSIDERED <i>4/10/02 21, 2002</i>

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EXAM. INIT.	OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication)	
PB	C3	Brunelle <i>et al.</i> (1998) "Semicrystalline Polymers via Ring-Opening Polymerization: Preparation and Polymerization of Alkylene Phthalate Cyclic Oligomers" <i>Macromolecules</i> Vol. 31, 4782-4790.
	C4	Burch, R. R. et al. (2000) "Synthesis of Cyclic Oligoesters and Their Rapid Polymerization to High Molecular Weight" <i>Macromolecules</i> , Vol. 33, No. 14, 5053-5064.
	C5	Cotton, N. J. et al. (1993) "Rate and Extent of Supercritical Fluid Extraction of Cyclic Trimer from Poly(Ethylene Terephthalate) at Elevated Temperatures" <i>Journal of Chromatographic Science</i> , Vol. 31, No. 5, 157-161.
	C6	Hamilton et al. (1998) "Cyclic Polyesters: Part 8. Preparation and Characterization of Cyclic Oligomers in Six Aromatic Ester and Ether-Ester Systems" <i>Polymer</i> Vol. 39, No. 14., 3241-3252.
	C7	Harrison, A. G. et al. (1997) "Analysis of cyclic oligomers of poly(ethylene terephthalate) by liquid chromatography/mass spectrometry" <i>Polymer Communications</i> , Vol. 38, No. 10, 2549-2555.
	C8	Henshaw <i>et al.</i> (1994) "Recycling of a Cyclic Thermoplastic Composite Material by Injection and Compression Molding" <i>J. of Thermoplastic Composite Materials</i> Vol. 7 (1), 14-29.
	C9	Hubbard, P. A. (1996) "Polyesters via Macrocyclic Oligomers" Dissertation presented at the University of Akron.
	C10	Kricheldorf, H. R. et al. (1997) "Macrocycles IV. Macrocyclic Polylactones as Bifunctional Monomers for Polycondensations" <i>Journal of Polymer Science</i> , Vol. 36, No. 9, 1373-1378.
	C11	Kricheldorf, H. R. et al. (1998) "Macrocycles. 3. Telechelic Polylactones via Macrocyclic Polymerization" <i>Macromolecules</i> , Vol. 31, No. 3, 614-620.
	C12	Lattimer et al. (1998) "MALDI-MS Analysis of Pyrolysis Products From a Segmented Polyurethane" <i>Journal of Analytical and Applied Pyrolysis</i> , Vol. 48, 1-15.
	C13	Liu et al. (1999) "Preparation of Cyclic Polyester Oligomers and Ultra-low VOC Polyester Coatings" <i>Polymer Preprints</i> , Vol. 40, No. 1.
	C14	Martin et al. (1987) "Pultrusion", <i>Engineered Materials Handbook: Vol. 1 Composites</i> , pp. 533-543.
	C15	Miller, S. (1998) "Macrocyclic polymers from cyclic oligomers of poly(butylene terephthalate)" Dissertation Presented at University of Massachusetts, Amherst, MA US.
	C16	Mueller, F. J. et al. (1983) "Synthesis of Cyclic Oligomers of Butylene Terephthalate" <i>Makromol. Chem.</i> , Vol. 184, No. 12, 2487-95.
	C17	Mueller, F. J. et al. (1983) "Synthesis of Cyclic Oligomers of Butylene Terephthalate" <i>Makromol. Chem.</i> , Vol. 184, No. 12, 2487-95. (Translation)
PB	C18	Perovic, A. (1985) "Morphological Instability of poly(ethylene terephthalate) cyclic oligomer crystals" <i>Journal of Material Science</i> , Vol. 20, Iss. 4, 1370-1374.

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B

C19

Perovie et al. (1982) "Crystallization of Cyclic Oligomers in Commercial Poly(ethleneterephthalate) Films"  
*Polymer Bulletin* Vol. 6, 277-283.

B

C20

Roelens, S. (1988) "Organotin-Mediated Synthesis of Macrocyclic Polyesters: Mechanism and Selectivity in the Reaction of Dioxastannolanes with Diacyl Dichlorides" *Journal of the Chemical Society, Perkin Transactions 2*, Vol. 8, 1617-1625.

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SUPPLEMENTAL INFORMATION DISCLOSURE  
STATEMENT

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## U.S. PATENT DOCUMENTS

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17	A87	4,590,259	5/20/86	Kosky et al.	528	272	

## FOREIGN PATENT DOCUMENTS

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